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EXAMINER

GAY, JENNIFER HAWKINS

PAPER NUMBER

3672

ART UNIT

DATE MAILED: 04/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	-
Office Action Summary	09/871,240	DUHON ET AL.	
	Examiner	Art Unit	
	Jennifer H Gay	3672	
The MAILING DATE of this communication ap	pears on the cover sheet	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replication of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by status any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 28 I 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allows closed in accordance with the practice under	is action is non-final. ance except for formal ma	·	
Disposition of Claims			
 4) ☐ Claim(s) 2,3,5-11 and 24-49 is/are pending in 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 34 is/are allowed. 6) ☐ Claim(s) 2,3,5-11,24-33,35-49 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/ 	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	cepted or b) objected to drawing (s) be held in abey ction is required if the drawir	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. Into have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No In received in this National Stage	•
Attachment(s)		•	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper N	Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 2, 3, 27, 28, 35, 36, and 44-49 are rejected under 35 U.S.C. 102(e) as being anticipated by Arizmendi (US 5,941,313).

Regarding claim 2: Arizmendi discloses an apparatus usable in a wellbore. The apparatus includes an element formed from titanium or other material that has sufficient strength and elasticity to bend without fracturing, i.e. a superplastic material. The element may be used as a seal (Abstract).

Regarding claim 3: Arizmendi discloses an apparatus usable in a wellbore. The apparatus includes an element formed from titanium or other material that has sufficient strength and elasticity to bend without fracturing, i.e. a superplastic material. The element may be used as an anchor. The examiner notes that wellbore packers inherently act as an anchor for the tubular string they are attached to.

Regarding claim 27: The superplastic element causes the seal to engage downhole tubing or casing.

Regarding claim 28: The apparatus is a packer.

Regarding claim 35: The packer may also function as an anchor.

Regarding claim 36: The packer includes a seal 26 that is actuated by the movement of a first sleeve 30 relative to a second sleeve 28.

Regarding claims 44-49: An elongation to failure in excess of 200%, a fine equiaxed grain structure that remains stable during deformation, and a fine equi-axed grain

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structure in a rage of 2 to 10 micrometers are all inherent properties of a superplastic material.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Owen et al. (US 3,712,376) in view of Miyake et al. (US 6,056,835).

Owen et al. discloses an apparatus usable in a wellbore. The apparatus includes an element that is formed from aluminum (6:37-43). The element may function as a sand screen (8:18-21).

Owen et al. discloses all of the limitations of the above claims except that the element was formed from a superplastic material, i.e. that aluminum is a superplastic material.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Owen et al. such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miszewski et al. (US 5,131,470) in view of Miyake et al. (US 6,056,835).

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Miszewski et al. discloses a wellbore shock absorber that includes aluminum elements (6:8-9).

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Brieger such that the element was made from a superplastic material such as that taught by Miszewski et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brieger (US 4,122,899) in view of Miyake et al. (US 6,056,835).

Brieger discloses an apparatus usable in a wellbore. The apparatus includes an element that is formed from aluminum and includes a releasable connector (3:60-63).

Brieger discloses all of the limitations of the above claims except for the element being specifically formed from a superplastic material, i.e. that aluminum is a superplastic material.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Brieger such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

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7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson et al. (US 6,454,001) in view of Miyake et al. (US 6,056,835).

Thompson et al. discloses an apparatus usable in a wellbore. The apparatus includes an element that is formed form aluminum and includes a releasable connector (5:65-6:7).

Thompson et al. discloses all of the limitations of the above claims except for the element being specifically formed from a superplastic material, i.e. that aluminum is a superplastic material.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Thompson et al. such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

8. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henning (US 4,042,019) in view of Miyake et al. (US 6,056,835).

Henning discloses an apparatus usable in a wellbore. The apparatus includes an element formed from aluminum (4:42-45). The element is included in a shape charge.

Henning discloses all of the limitations of the above claims except that the element was formed from a superplastic material, i.e. that aluminum is a superplastic material.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Henning such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed

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the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

9. Claims 10, 11, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mohaupt (US 4,081,031) in view of Miyake et al. (US 6,056,835).

Regarding claim 10: Mohaupt discloses an apparatus usable in a wellbore. The apparatus includes an element that is formed from aluminum (4:5-7) and includes a weak point connector (8:58-60).

Mohaupt discloses all of the limitations of the above claims except for the element being specifically formed from a superplastic material, i.e. that aluminum is a superplastic material.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Mohaupt such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

Regarding claim 11: Mohaupt discloses an apparatus usable in a wellbore. The apparatus includes an element that is formed from aluminum (4:5-7) and a heating device to heat the element to a temperature at which the material will plastically deform.

Mohaupt discloses all of the limitations of the above claims except for the element being specifically formed from a superplastic material, i.e. that aluminum is a superplastic material.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

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It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Mohaupt such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

Regarding claim 39: The heating device is a chemical propellant.

10. Claims 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arizmendi (US 5,941,313) in view of Mohaupt (US 4,081,031).

Regarding claim 30: Arizmendi discloses all of the limitations of the above claims except for a heating device to heat the superplastic material to a temperature at which the element exhibits superplastic behavior.

Mohaupt discloses a downhole heating element. Mohaupt further teaches using the heating element to deform the walls of the aluminum housing of the tool (4:4-7).

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the apparatus of Arizmendi to include a heating element as taught by Mohaupt in order to have used a well known method for cause a superplastic material to exhibit superplastic behavior (1:19-30 of Miyake et al.). One would have been motivated to make such a combination because a means for increasing the ability of the element to expand would have been obtained, as inferred by Mohaupt.

Regarding claim 31: The apparatus includes a piston 30 to cause translation of the element.

Regarding claim 32: The heating device is a chemical propellant.

11. Claim 33 rejected under 35 U.S.C. 103(a) as being unpatentable over Arizmendi (US 5,941,313) in view of Gonzalez et al. (US 6,474,414).

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Arizmendi disclose all of the limitations of the above claims except for the element further including a plug to block the flow of fluid through the bore of a conduit.

Gonzalez et al. teaches a downhole plug for blocking flow through a conduit. The plug is characterized as being made from a highly ductile and flowable solder such as aluminum (3:35-37, 6:17-18).

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the element of Arizmendi to include a plug such as that taught by Gonzalez et al. in order to have been able to isolate sections of the wellbore from other sections of the wellbore (1:5-16). One would have been motivated to make such a combination because a means for easily installing and removing wellbore plugs would have been obtained, as taught by Gonzalez et al. (2:1-23).

12. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Owen et al. (US 3,712,376) in view of Miyake et al. (US 6,056,835) as applied to claim 5 above, and further in view of Mohaupt (US 4,081,031).

Owen et al. and Miyake et al. discloses all of the limitations of the above claims except for a heating device to heat the superplastic material to a temperature at which the element exhibits superplastic behavior.

Mohaupt discloses a downhole heating element. Mohaupt further teaches using the heating element to deform the walls of the aluminum housing of the tool (4:4-7).

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the apparatus of Owen et al. in view of Miyake et al. to include a heating element as taught by Mohaupt in order to have used a well known method for cause a superplastic material to exhibit superplastic behavior (1:19-30 of Miyake et al.). One would have been motivated to make such a combination because a means for increasing the ability of the element to expand would have been obtained, as inferred by Mohaupt.

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13. Claims 40 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Timmons (US 3,380,528) in view of Meitzen (US 3,713,486) and Miyake et al. (US 6,056,835).

Timmons discloses an apparatus usable in a wellbore. The apparatus includes a fishing tool that includes expandable element (figures 2 and 3) for engaging the inner wall of a conduit to be removed from the wellbore.

Timmons discloses all of the limitations of the above claims except for the element being formed from a superplastic material.

Meitzen discloses a wellbore anchoring devices that includes slips 14 similar to those of Timmons. Meitzen further teaches that the slips are formed from aluminum.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Timmons such that the expandable element of the fishing tool was formed from aluminum as taught by Meitzen in order to have used an expandable element that would have deformed upon contact with the "fish". One would have been motivated to make such a combination because a means for removing a "fish" from the wellbore without damaging the tubular or other lost equipment would have been obtained.

Miyake et al. teaches that aluminum is a well known superplastic (2:9-13, 5:48-65). It is further well known that aluminum is a ductile material.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified Timmons in view of Meitzen such that the element was made from a superplastic material such as that taught by Miyake et al. in order to have formed the element from a material that was capable of being subjected to expanding without failure (1:5-10). One would have been motivated to make such a combination because an element that was more versatile and less prone to failure would have been obtained, as taught by Miyake et al. (36:1-20).

14. Claims 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohmer (US 6,056,059) in view of Mohaupt (US 4,081,031).

Ohmer discloses an apparatus usable in a wellbore. The apparatus includes junction seal assembly that is formed from a super plastic material such as Monel or

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Inconel (14:55-59). The junction assembly includes tubing that is inserted into a lateral wellbore (Figure 18A-18E).

Ohmer discloses all of the limitations of the above claims except for a heating device to heat the superplastic material to a temperature at which the element exhibits superplastic behavior.

Mohaupt discloses a downhole heating element. Mohaupt further teaches using the heating element to deform the walls of the aluminum housing of the tool (4:4-7).

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the apparatus of Ohmer to include a heating element as taught by Mohaupt in order to have used a well known method for cause a superplastic material to exhibit superplastic behavior (1:19-30 of Miyake et al.). One would have been motivated to make such a combination because a means for increasing the ability of the element to expand would have been obtained, as inferred by Mohaupt.

Allowable Subject Matter

15. Claim 34 is allowed.

Response to Arguments

16. Applicant's arguments filed 28 February 2005 have been fully considered but they are not persuasive.

Though applicant has presented many different arguments with respect to the rejections presented above and in the previous Office Action, those arguments will be addressed below, the crux of applicants argument appears to be assertion that Arizmendi, and the primary references applied in the rejections of the claims under 35 USC 103, do not teach forming the respective elements from a superplastic material. While the examiner acknowledges that the applied references, Miyake and Ohmer excluded, do not specifically stated that the material from which the disclosed elements are made is a superplastic material, the references do indicate that the elements are made from aluminum, titanium, or magnesium. All of these metals are defined by applicant has

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being superplastic materials (beginning on page 3, line 28) thus the references do teach forming the disclosed elements from a superplastic material. With the exception of Arizmendi, Miyake has been used to further clarify the applied references by stating that aluminum is a known superplastic material.

Applicant has gone on to argue that not all titanium or aluminum alloys are considered superplastic but that the metals must be subject to a specific process in order to make the metal superplastic. In response, the examiner repeats that applicant has not claimed a specific process by which a material can be made superplastic not does the specification provide any basis for this argument. Further, the specification (beginning on page 3, line 28) defines a superplastic material as either "aluminum, titanium, magnesium, or other light metal" and does not list any specific alloys of the above metals thus indicating that applicant has defined the above metals as generally superplastic materials. It is noted that the addition of just specificities would be considered new matter at this point in the prosecution.

The remainder of applicants' arguments is addressed below.

Applicant has argued that Arizmendi does not disclose an element formed of a superplastic material. Specifically, applicant argues that the titanium disclosed by Arizmendi is not a superplastic material because the fact that a body is able to bend without fracturing does not make it superplastic and that a material does not automatically become a superplastic material, that a specific process is required.

In response, the examiner repeats her previous assertion that applicant does not claim a specific process by which a material can by made superplastic nor does the specification provide any basis for this argument. Further, the specification (beginning on page 3, line 28) defines a superplastic material as either "aluminum, titanium, magnesium, or other light metal" and does not list specific alloys of the above metals thus indicating that applicant has defined the above metals as generally superplastic materials. It is noted that the addition of just specificities would be considered new matter at this

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point in the prosecution. It is further noted that being able to bend without fracturing is in fact one of the definitions of a superplastic material as provided by applicant.

Applicant has also argued that there is no teaching in Arizmendi of performing a special process on the various material of the sheath body 22 to make the material superplastic. Such a process need not be taught, as this is not a feature of any of the claims. Further, based on applicants definition of what a superplastic material is Arizmendi teaches a superplastic material by teaching that the sheath can be made of titanium.

Applicant has argued that Arizmendi does not teach or suggest the characteristics recited in claims 44-49 and indicates that titanium would not necessarily have these properties if the special process were not performed. While the examiner acknowledges that Arizmendi does not specifically teach the properties recited in claims 44-49, applicant has stated that titanium is a superplastic material and has also stated that the limitations of claims 44-49 are known properties of a superplastic material. Therefore, because Arizmendi teaches forming the disclosed element from titanium the limitations of claims 44-49 are inherently taught.

Applicant has argued that Arizmendi does not teach or suggest a heating device to heat a superplastic material to a temperature such that the element exhibits superplastic behavior. In response, the examiner notes that she has not indicated that Arizmendi discloses this feature and has used Mohaupt to teach such a heating device.

However, applicant has also argued that Mohaupt does not teach or suggest such a heating device either because the chemical generator taught by Mohaupt causes bursting, failure, or swelling of the housing, the aluminum element of the chemical generator, thus clearly not teaching heating a superplastic material such that it exhibits superplastic behavior.

In response, the examiner first notes that the chemical generator of Mohaupt forms a flame, which is a known heat source, thus is clearly a heating device.

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Secondly, the examiner notes that Mohaupt only teaches that the housing will fail or burst if formed from rigid plastic (4:9-14) and the swelling taught by Mohaupt would be considered equivalent to expansion of the superplastic material. Further, Mohaupt was used merely to teach the heating of a superplastic material, i.e. aluminum, in the wellbore and the specifics of the device taught by Mohaupt are not relevant to the rejection. It is also noted that Miyake et al. clearly teaches that it is considered well known that the heating superplastic materials to cause them to exhibit superplastic behavior (4:4-7).

Applicant has also argued that there is no motivation to combine Arizmendi and Mohaupt. The examiner notes that, while not specifically stated in Mohaupt, Mohaupt has inferred that the heating of a superplastic material, i.e. aluminum, would increase that material ability to expand. This can be seen by the fact that the flame produced by the device of Mohaupt causes the aluminum element to swell. Further, though not applied to reject claim 30, Miyake teaches that it is considered well known that the heating superplastic materials to cause them to exhibit superplastic behavior (4:4-7).

Applicant has argued that Arizmendi does not disclose a plug formed of a superplastic material. In response, the examiner notes that she has not indicated that Arizmendi teaches this feature and has relied upon Gonzalez to teach such a plug.

However, applicant has also argued that Gonzalez does not teach such pug because the plug taught by Gonzalez is a molten metal plug, i.e. the plug is formed by melting a metal, and thus clearly different from that disclosed in the instant application.

In response, the examiner first notes that the plug of Gonzalez is formed from aluminum, which has been defined as a superplastic material thus meeting the limitations of the claim. Secondly, the plug disclosed by applicant is also melted, i.e. "heated to a molted or liquid state", (beginning pate 4, line 16) thus applicants argument that the plug of Gonzalez is clearly different from that of the instant application because it is a molten metal plug has no basis as this a characteristic of the applicants plug.

Applicant has argued that Owen does not teach a sand screen being formed of a superplastic material. In response, the examiner notes that the sand screen of Owen is

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described as being formed of aluminum, which has been, defined a superplastic material.

This same response is applied to the arguments applicant has made regarding Brieger,

Thompson, Menning, Mohaupt, Timmons, Meitzen, and Ohmer.

Applicant has also argued that there is no teaching or motivation other than hindsight to form the sand screen of Owen, or the elements taught in Brieger, Thompson, Menning, Mohaupt, Miszewski, Timmons, Meitzen, and Ohmer. The examiner notes that such a teaching or motivation need not be found in the above references as each of the disclosed elements is described as being formed from aluminum, which is a know superplastic material.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Applicant has argued that there is no motivation within Miyake of using the disclosed superplastic material in a downhole apparatus. In response, the examiner notes that Miyake has been used to merely further clarify that aluminum is a known superplastic material. The reference is not specific as to the use of the disclosed alloy as it is concerned only with the alloy itself thus the above argument is not pertinent to the rejection. Further, Miyake was used merely to supply a teaching that aluminum was a known superplastic material as admitted by applicant beginning in line 30 of page 3 of the specification of the instant application. Miyake was specifically to define the elements of Owens, Miszewski, Brieger, Thompson, Henning, Timmons, Meitzen, or Mohaupt as being formed from a superplastic material.

Applicant has argued that there is no teaching in Ohmer of the desirability of incorporating a heating device to heat an element formed of a superplastic material. The

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examiner first notes that applicant is arguing the rejection of claim 42 as if it has been rejected under 35 USC 102 instead of 35 USC 103. It has not been indicated that Ohmer teaches a heating device or the desirability to include one as this feature was taught by the secondary reference Mohaupt.

Regarding the above stated "admission" by applicant, applicant has argued that such a statement is not proper because the disclosure of the present invention cannot be used as an admission of prior art.

In response, the examiner first notes that the statement made by the examiner above and in the previous Office Action was not used to reject any of the pending claims. However, the segment of the specification that the examiner has referred to, page 3, line 28 through page 4, line 15, is actually considered prior art or at least a definition of a superplastic material that is excepted by the applicant. This is supported by Werner et al. (US 6,464,019; previously cited), which provides the same excepted definition of a superplastic material (5:59-6:27). This definition provided by applicant states that aluminum, titanium, and magnesium are known superplastic materials and gives no indication that only certain alloys or alloys processed a special way are considered superplastic materials.

Conclusion

17. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer H Gay whose telephone number is (571) 272-7029. The examiner can normally be reached on Monday-Thursday, 6:30-4:00 and Friday, 6:30-1:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner Art Unit 3672

JHG April 8, 2005